

Date⇒ 25-02-2021

Module⇒ Backend

Lecture By⇒ Akash Handa

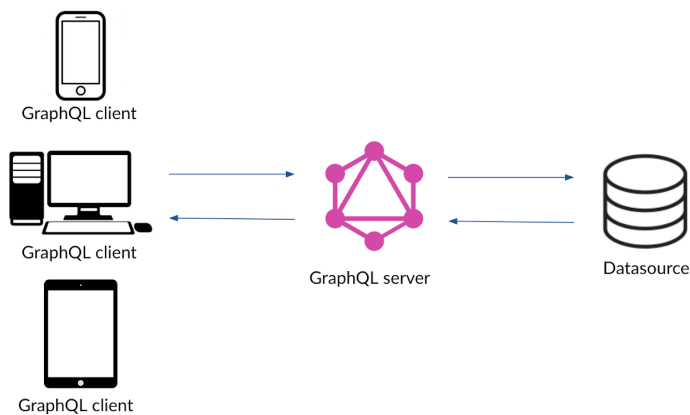
Subject ⇒ GraphQL

IN PREVIOUS LECTURE (QUICK RECAP) Date-24/02/2021	In Today's Lecture (Overview)
Crud Using Postgres App testing using Chai	What is GraphQL

What is GraphQL

GraphQL is an open-source data query and manipulation language for APIs, and a runtime for fulfilling queries with existing data. GraphQL was developed internally by Facebook in 2012 before being publicly released in 2015.

GraphQL lets you ask for what you want in a single query, saving bandwidth and reducing waterfall requests. It also enables clients to request their own unique data specifications.





App.js

```
const express = require('express');
const port = 8600;
const app = express();
const cors = require('cors');
const {graphqlHTTP} = require('express-graphql');
const schema = require('./Model/Schema');
app.use(cors())
app.use(
  '/graphql',
  graphqlHTTP({
    schema:schema,
    graphiql:true
  })
)
app.listen(port)
```

Db.json

```
{
  "movies": [
    {
      "id": 1,
      "name": "Black Panther",
    }
  ]
}
```

```

    "language": "ENGLISH",
    "rate": 4.5,
    "type": "Action Adventure Fantasy",
    "imageUrl": "https://image.ibb.co/f0hhZc/bp.jpg"
  },
  {
    "id": 2,
    "name": "Death Wish",
    "language": "ENGLISH",
    "type": "Action Crime Thriller",
    "rate": 3.2,
    "imageUrl": "https://image.ibb.co/gC9PfH/dw.jpg"
  },
  {
    "id": 3,
    "name": "Coco",
    "language": "ENGLISH",
    "type": "Adventure Animation Family",
    "rate": 5,
    "imageUrl": "https://image.ibb.co/dQwWSx/coco.jpg"
  },
  {
    "id": 4,
    "name": "Avengers",
    "language": "ENGLISH",
    "type": "Action",
    "rate": 2,
    "imageUrl":
"https://www.hindustantimes.com/rf/image_size_960x540/HT/p2/2018/04/01/Pic
tures/_46a0b2c0-3590-11e8-8c5f-3c6cc031651e.jpg"
  }
]
}

```

Schema.js

```

const graphql = require('graphql');
const axios = require('axios');

const {
  GraphQLObjectType,

```

```

    GraphQLInt,
    GraphQLFloat,
    GraphQLString,
    GraphQLSchema
  } = graphql;

const MovieType = new GraphQLObjectType({
  name: 'Movies',
  fields: {
    id: { type: GraphQLInt },
    name: { type: GraphQLString },
    language: { type: GraphQLString },
    rate: { type: GraphQLFloat },
    type: { type: GraphQLString },
    imageUrl: { type: GraphQLString }
  }
});

//get
const RootQuery = new GraphQLObjectType({
  name: 'RootQueryType',
  fields: {
    Movies: {
      type: MovieType,
      args: { id: { type: GraphQLInt } },
      resolve(parentValue, args) {
        return
        axios.get(`http://localhost:8900/movies/${args.id}`)
          .then((res) => res.data)
      }
    }
  }
});

module.exports = new GraphQLSchema({
  query: RootQuery
});

// get => query

```

```
// post/put/delete > mutation
/*
{
  Movies(id:2){
    language,
    rate
  }
}
*/
```